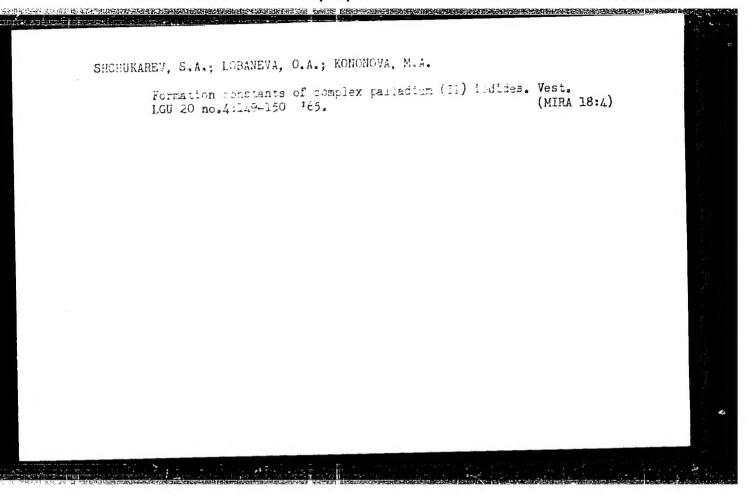
SHCHUKAREV, S.A.; BALICHEVA, T.G.; BORCHA, K.Ya.; KUKHAREVA, M.A.

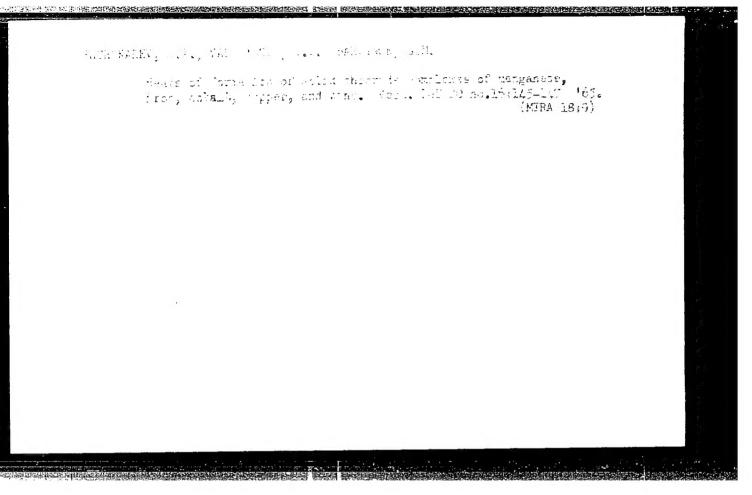
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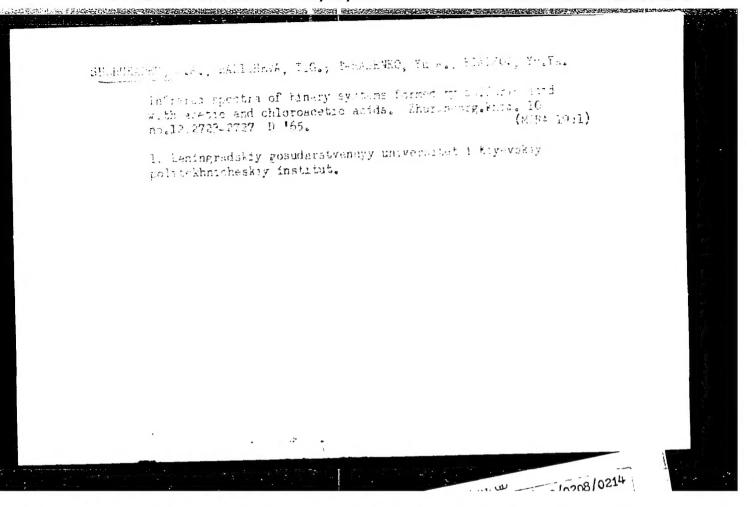
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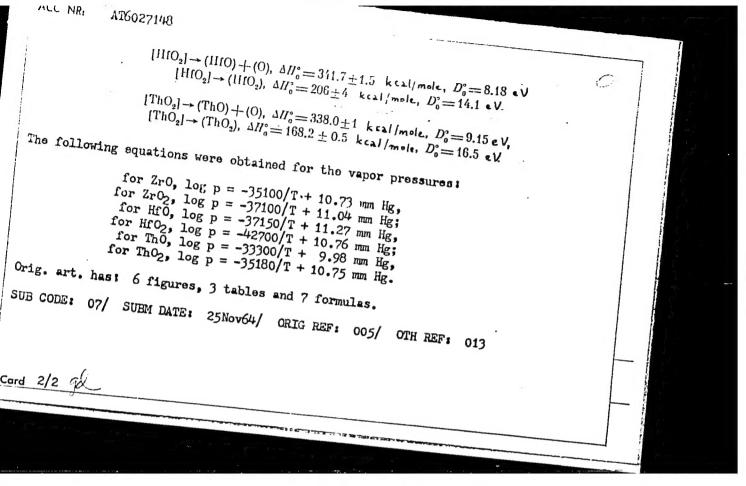


DANILOV, S.N., glav, red.: ZAKHAROVA, A.I., red.; ARBUZOV, A.Ye., red.; VVEDENSKY, A.A., red.; VENUS-DANILOVA, E.D., red.; IOFFE, I.S., rei., KAVERZNEVA, Ye.D., red.; LUTSENKO, I.F., red.; MISHCHENKO, K.F., red.; NEMTSEV, M.S., red.; PETROV, A.A., red.; FREYDLINA, R.Kh., red.; SHENYAKIN, R.M., red.; SHCHUKAREV, S.A., rel.; YUR'YEV, Yu.K., red.

[Problems of organic synthesis] Problemy organicheskogo pinteza. Eoskwa, Nauka, 1965. 323 p. (MIRA 18:8)







ACC NR: ATGOLY043 (A) SOUNCE COURT ON OUTS/00/011/002/0293/0236
Author: Shehukarov, S. A.; Somehov, G. A.; Frantsova, K. Zo.
ORG: Loningram State Order of Lonin University im. A. A. Zadenov (Loningradskiy gonudarstvonnyy ordena Lonina universitet)
TITLE: Thormodynamic study of evaporation of the lower exides of niebium
SOURCE: Znurnal neorganicheskoy knimii, v. 11, no. 2, 1966, 233-236
TOPIC TAGS: niobium compound, thormodynamic analysis, mass spectrometry, x ray analysis, heat of dissociation, Evaporation
ABSTRACT: This is a continuation of the previous works of the authors on the evaporation of Nb exides (Zh. neerg. khimii, 4, 2638, 1959; Inv. vysch. uchebn. maved. Knim. i khim. tekhnologiya, 5, 691, 1962; and Iokh. AN SSSR, 145, 119, 1962) attempting to evaluate quantitatively the parameters of the processes accompanying the evaporation of NbO and NbO2 and consisting of measuring the vapor pressure by the effusion method with simultaneous mass-spectrometric analysis of the products of evaporation. The study of the evaporation of NbO at 1600-22000 under equilibrium conditions substantiated the conclusions of the previous works regarding the presence of NbO and NbO2 molecules in the gas phase. At temperatures of >23000 Nb <sup>4</sup> ions were observed in the effusion charber after complete disappearance of the ion currents of NbO2 and NbO4. The heat of sublima-
Card 1/3 UEC: 546.832.2/.5-31: 536.7

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ACC NR: AP6019043

tion of No (AH2980 = 173 kcal/g-at), which agreed well with the literature data (171.3 konl/g-at), was determined from the angular coefficient of the curve log(IT . T) = r(1/T) plotted after measuring the dependence of the intesity of Not on temperature. I-ray phase analysis of the residue left effect evaporation desected the presence of NEO and No and no NEO, in the solid phase. Therefore, the evaporation of NEO consisted NEO and No and no NEO, in the solid phase. Therefore, the evaporation of NEO, The of the following reactions: NEO, solid, liquid (NEO) and 2NEO, solid, liquid (NEO) + [NEO]. The part of each reaction in the evaporation of NEO was determined as bythe solvent passence having evaporation of NEO, at 1500 - 21000, the mass spectrum indicated the prisence of predominant NbO2 and subordinate NbO in amounts varying from fractions of 1% at 15000 to 7-8% at 22000. The x-ray phase analysis detected only Woog in the solid phase. It was thus concluded that two reactions were prosent during the evaporation of MbO:

NbO2 solid, liquid (NbO2) and NbO2 solid, liquid (NbO) + (0). The vapor pressures of the components of these two reactions were measured. The results agreed with 5% accuracy) with cata from previous investigations. The heat of sublimation of the NbO and NEO2 molecules and the energies of their dissociation were calculated for NEO2 as A RO = -59.541 kcal/mole and IO = 14.840.1 ev and for NoO as A RO = 49.541 kcal/mole and IO = 7.840.1 ev. The melting heath of NoO2 and NoO were determined to be 18 and and IO = 7.840.1 ev. The melting heath of NoO2 and NoO were determined to be 18 and and IO = 7.840.1 ev. 22 kcal/mole, respectively. The equation of free energy of the gascous NoO2 and NoO from the dements can be written as

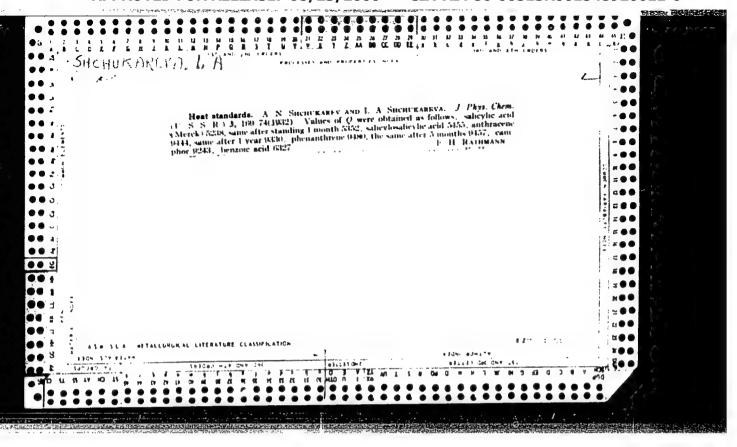
 $\Delta F_{I_{(NEO)}}^0 = -54300 - 4.577; \quad \Delta F_{I_{(NEO)}}^0 = 49500 - 23.4T$ 

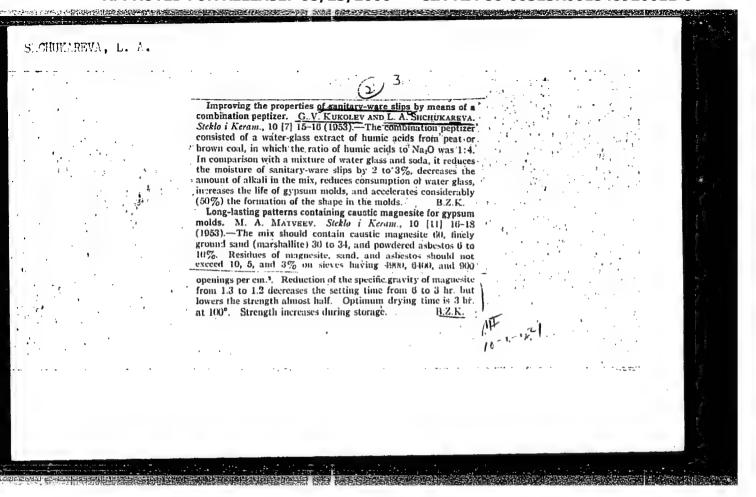
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GOROSHNIKOV, B.I.; EMHURI, V.S.; MURKLEV, G.V.; MARCHED RO, Ye.Ya.; SKOMAROVINAYA, L.A.; GRADERA, A.I.; MRCHURALIVA, L.A.; YURK, YU.'u.', doktor geol.-miner. Mark, prof.; YU MYN, L.D.; SERDYOK, C.F., red.

[Granitoid rocks in the Azov Sea region and prospects for using them in the certain and places industries] Granitoid-nye porody Priacovia i percentity ikh ispolizovania v keramichesko i stekolinom proizvodstvakh. Fod red. Iu. Iu. Iurka. Kiev, Baukova dusko, 1964. 143 p. (FIFA 17:9)

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(Kaolin-Testing)

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[Coupling systems for automobiles and tractors; design, theory, and calculation] Steepnye ustroistva avtomobilei i tiagachei; konstruktsiia, teoriia i raschet. Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit.lit-ry, 1961. 206 p.

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(Couplings) (Automobile trains)

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SO: Sum. No. 481, 5 May 55

SHCHUKARBVA, N.K., kandidat meditsinskikh nauk (Leningrad, ul. Krasnogo Tekstil'shchika, d. 3/10 kv.5)

Evaluation of clinical groups of patients with cancer. Vop.onk. 1 no.3:56-59 155. (MIRA 10:1)

1. Iz otdela nauchnogo ucheta Instituta onkologii AMN SSSR (direktor chlen-korrespondent AMN SSSR prof. A.I.Serebrov. zaveduyushchiy otdelom - starshiy nauchnyy sotrudnik A.V.Chaklin)
(NEOPLASMS,
grouping of patients with various forms of cancer)

SHCHUKAREVA, N.K. (Leningrad, ul. Krasnykh tekstil'shchikov, d.3/10 kv.5) and the set that we have the property of the partition of Soft tissue fibrosercome of the leg stump with regional metastasis [with summary in English] Vop.onk. 2 no.3:361-363 '56. (MLRA 9:10) 1. Iz 2-go khirurgicheskogo otdeleniya (zav. - prof. A.I.Rakov) Instituta onkologii AMN SSSR (dir. - prof. A. I. Serebrov) (AMPUTATION STUMPS, neoplasms leg., fibrosarcoma of soft tissue with regional metastasis, surg.) (FIBROSARCOMA soft tissue of amputation stump of leg with regional metastases, surg.) (LEG, neoplasms soft tissue fibrosarcoma of amputation stimp, with regional metastases, surg.)

RAKOV, A.I.; SHEMYAKINA, T.V. SHCHUKARWYA, N.K.; IVANOV, G.G.

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1. Iz I khirurgicheskoy kliniki (zav.-prof. S.A. Kholdin), iz II khirurgicheskoy kliniki (zav.-prof. A.I. Rakov) i kinicheskoy laboratorii Instituta onkologii AMN SSSR (dir.-chl.-korr. AMN SSSR prof. A.I. Serebrov) Adres avtorov: Leningrad, 129,2-ya Berezovaya alleya, d. 3, Institut onkologii AMN SSSR. (STOMACH NEOPLASMS, physiol.

gastric secretion during cancer & in precancerous stages)
(GASTRIC JUICE, physical in various dis.
secretion during cancer & in precancerous stages)

SHCHUKAREVA, N.K. (Leningrad, 124, ul. Krasnogo Tekstil'shchika, d.3/10, kv.5)

Intrapulmonary hamartoma. Vop.onk. 5 no.11:609-613 '59, (MIRA 14:7)

1. Iz II khirurgicheskogo otdeleniya (zav. - prof. A.I.Rakov)
Instituta onkologii ANN SSSR (dir. - deystvitel'nyy chlen ANN SSSR prof. A.I.Sershrov).

(LUNGS—TUMORS)

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(MRRA 15:3)

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Rakov) Instituta onkologii AMN SSSR (dir. - deystvitel'nyy chlen AMN SSSR prof. A.I. Serebrov).
(LUNGS—TUNORS)

SHONUKAREVA, N. K. (Leningrad, C-124, ul. Krasnykh Tekstil'shchikov, d. 3/10, kv. 5); VAGNER, R. I.

Prescalene biopsy in cancer of the lung. Grud. khir. 4 no.3: 22-26 My-Je '62. (MIRA 15:7)

1. Iz 2-go khirurgicheskogo otdeleniya (zav. - chlen-korrespondent AMN SSSR prof. A. I. Rakov) Instituta onkologii (dir. - deystvitel nyy chlen AMN SSSR prof. A. I. Serebrov) AMN SSSR.

(LUNGS-\_CANCER) (CHEST\_\_BIOPSY)

SHCHUKAREVA, N. K.

Clinical anatomical characteristics of bronchial cancer with a branching form of growth. Vop. onk. 8 no.5:61-72 '62. (MIRA 15:7)

1. Iz 2-go khirurgicheskogo otdeleniya (zav. - chl. korr. AMN SSSR, prof. A. I. Rakov) Instituta onkologii AMN SSSR (dir. - deystv. chl. AMN SSSR, prof. A. I. Serebrov)

(BRONCHI\_\_CANCER)

SOKOLOVA, N.M.; KASATKINA, N.M.; SHCHUKAREVA, N.K.; LEVKOVICH, Yu.I.

Laboratory diagnosis of candidiasis in patients with malignant . tumors. Vop. onk. 9 no.8:49-54 '63 (MIRA 17:4)

1. Iz kliniki-diagnosticheskoy laboratorii (zav. - dotsent I.F. Grekh) Institutaonkologii AMN SSSR (direktor - deystvitel nyy chlen AMN SSSR prof. A.I. Serebrov. Adres avtorov: Leningrad, P-129, 2-ya Berezovaya alleya, 3, Institut onkologii AMN SSSR.

SHCHUKAREVA, N.K. (Leningrad, S-124, ul. Krasnykh tekstil'shchikov, d.3/10, kv.5)

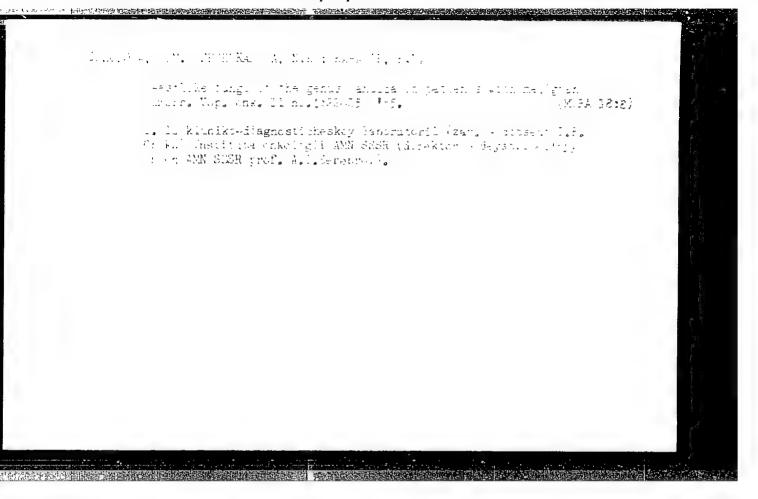
> Nature of the growth and metastatic spreading of pulmonary cancer to regional lymph nodes. Vop. onk. 10 no.9:8-16 164. (MIRA 18:4)

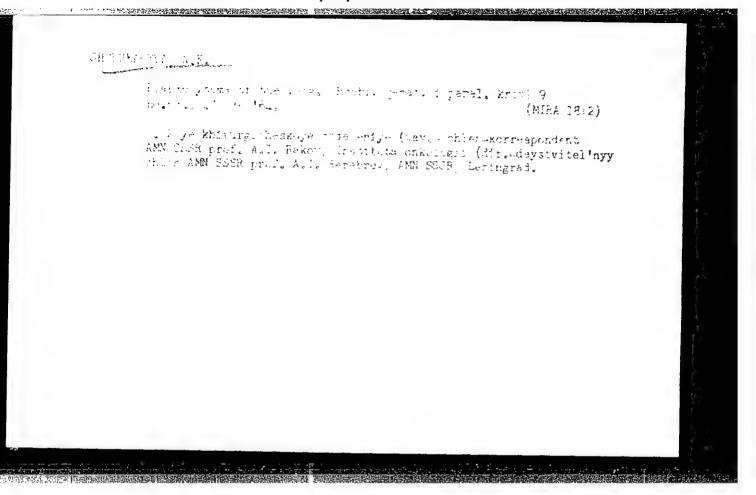
1. Iz II khirurgicheskogo otdeleniya (zav. - chlen-korrespondent AMN SSSR prof. A.I.Rakov) Instituta onkologii AMN SSSR (dir. deystvitel nyy chlen AMN SSSR prof. A.I.Serebrov).

SHOHERALEWA, H.K. (Leningrad, S-12%, ul. Krasnogo Tekstil'shchika, d.3/10, kv.5)

Polypoid cancer of the lung. Vop. onk. 10 nc.5:22-31 '64. (MBA 17:2)

1. Iz II khirungicheskogo otdeleniya (zav. - chler-korrespondent AME 333E prof. A.I.Rakov) Instituta onkologii adi Scia (dir. - deystvitel'nyy chlen AME 333E prof. A.I.Serebrov).

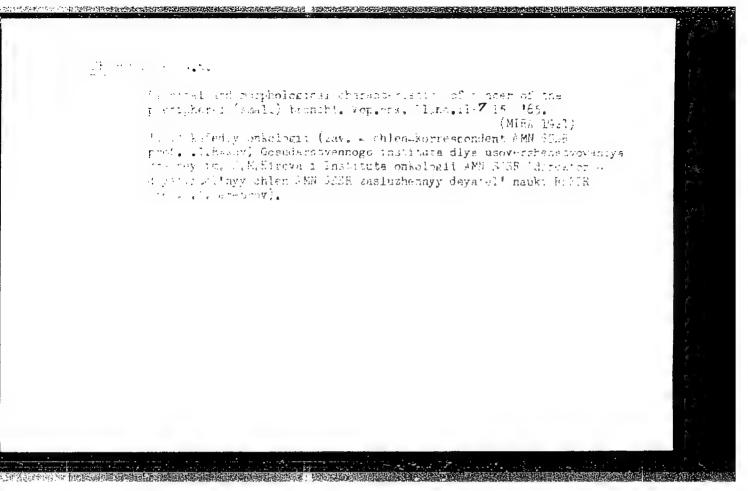




Sokolova, N.M.: Shohukarava, N.K.: Levitskala, M.A., Karasik, B.N.

Serological diagnost: franciduasts in patients with malignant neoplasms. Vip. ork. C. nr.3 52-42 its.

-1. Iz kliniko-diagnostionesky; laboratorni (zav. - dotsent I.F.Grekh) Instituta onknight sMM SSSR (direktor - deystwitel'-nyy chien AMN SSSR prof. A.I.S-rebroil.



SHCHUKAREVA, N.K., kand.med.nauk (Leningrad, ul. Krasnykh tekstil'shchikov.
d.3/10 kv.5)

Coelomic cyst of the mediastinum. Vest.khir. 83 no.9:113-116
S'59. (MIRA 13:2)

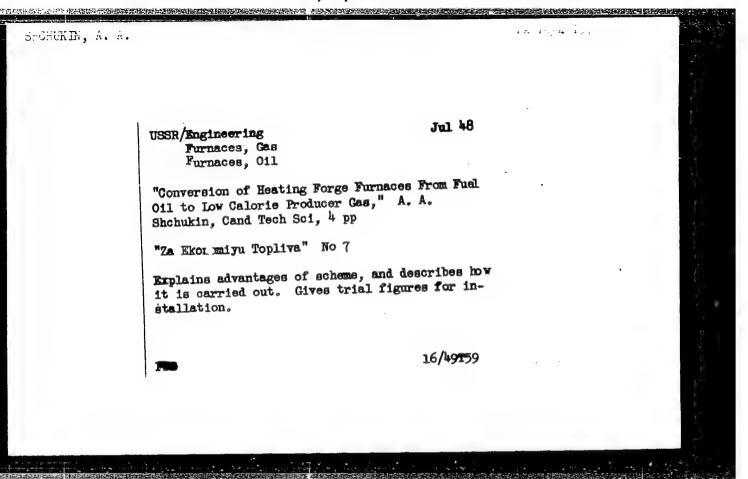
1. Iz 2-go khirurgicheskogo otdeleniya (zaveduyushchiy - prof. A.I.
Rakov) Instituta onkologii AMN SSSR.
(MEDIASTINUM, neoplasms)
(MESOTHELIOMA, case reports)

SHCHUKIN, A.A.; SHCHUKIN, A.A., mladshiy.

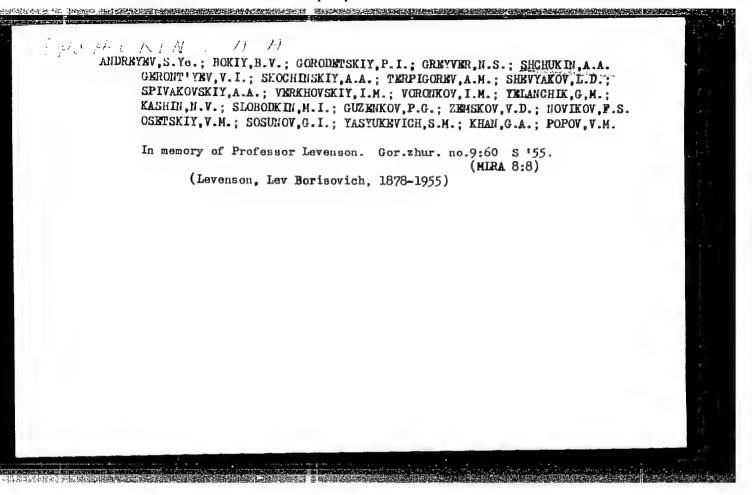
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(MIRA 13:6)

(Furances) (Gas as fuel) (Heating)



USSR/Engineering Furnates Furnates Heating  *Operation of Cas Jets for Hosting Gas and Air,* A. A. Shchukin, Cand Tech Soi, 4 pp  "Za Ekonomiyu Tophiya" Vol V, No 10  Dispusses efficiency of using high-pressure Jets in formed to with proheating of generating gas and air.  13/90745	USSR/Engineering Furnates Heating  Coratation of Cas Jeto for Heating Gas and Air," A. A. Shchukin, Cand Tech Soi, 4 pp  "Ze Ekonomicu Topliva" Vol V, No 10  Dinguases efficiency of using high-pressure jets in formed. C, with proheating of generating gas and air.	SHCHWAIN,		F <b>A</b> 43/49T45	1
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Constation of Gas Jets for Hosting Gas and Air,"  A. A. Shchukin, Cand Tech Soi, 4 pp  "Ze Ekonomiyu Topliva" Vol V, No 10  Dispusses efficiency of using high-pressure jets in furness, with preheating of generating gas and air.	"Craration of Gas Jeto for Hosting Gas and Air,"  A. A. Shchukin, Cand Tech Sci, 4 pp  "Za Ekonomiyu Topkiva" Vol V, No 10  Dinguases efficiency of using high-pressure jets in formacly, with preheating of generating gas and air.		Furnato 8	Oct 48	
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former, and preheating of generating gas and air.	formed, by with preheating of generating gas and air.		"Za Ekonomiyu Topliva" Ve	ol V, No 10	
1,3/191145	1/3/1/9T45		furnece, with preheating	using high-preserve jets in g of generating gas and	
			366	1,3,/19145	



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MURZAKOV, V.V., redaktor; FRIDKIN, A.M., tekhnicheskiy redaktor

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2-oe, perer. Moskva, Gos. energ. izd-vo, 1956. 384 p. (MIRA 9:9)

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(Gas, Watural)

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(Furances) (Gas as fuel) (Heating)

BANHMACHEVSKIY, Boris Ivanovich: Arm. Galadarma Gustavovich; LWZo, Georgiy Pavlovich; EUUErn, Iver: Nikolayevich; SHCHUKIN, Aleksey Aleksandrovich; CATEULA, T.V., red.izd-va; DOBUZHINSKAYA, L.V., tekhn. ren.

[Heat engineering; course in general heat engineering]
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BAKHMACHEVSKIY, b.I.; ZAKH, R.G.; SHCHUKIN, A.A.

[General heat engineering; instructions on methods and test assignments for students of other than heat engineering professions of technical correspondence schools of higher learning Coschehaia teplotekhnika; metodicheskie ukazaniia i kontrol'nye zadaniia dlia studentov neteplotekhnicheskikh spetsial'nostei zaochnykh vysshikh tekhnicheskikh uchebnykh zavedenii. Izd.5. Moskva, Vysshaia shkola, 1961. 117 p. (FIRA 17:9)

ECLOVSKIKH, Afanasiy Andreyevich; SHCHUKHE, Aleksandr Grigor'yevich;
VSHIVKOV, F.P., inzh., retsenzent; SHELEKHOV, V.A., Inzh.,
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[Operator of a hydraulic press]Mashinist gidrevlicheskogo pressa. Koskvz, Mashgiz, 1962. 111 p. (MIRA 15:10)

(Hydraulic presses)

SHCHUKIN, Aleksey Grigoriyevich; SHRCLINIKOV, Boris Yakovlevich;
ZAVYYALOVA, A.M., red.; MCZGALEVSKAYA, S.A., miad. red.;
DUNOMAREVA, A.A., tekhn. red; GERASIMOVA, ie.S., tekhn.
red.

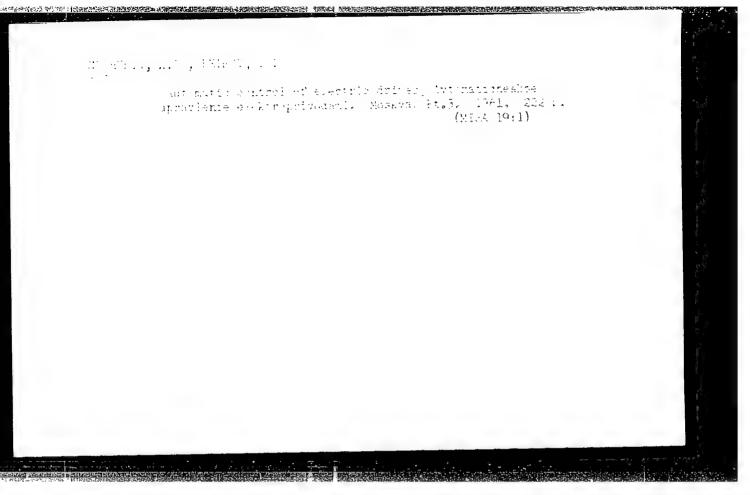
[Technical, industrial and financial plan of enterprises
of local importance] Tekhpromfinplan predprilati mestnogo
of local importance, Ekonomizdat, 1963. 295 p.
(MIRA 16:11)

(Industrial management)

SHCHUKIN, Aleksey Grigor'yevich; SHKOL'NIKOV, Boris Yakovlevich;
ZAV'YALOVA, A.N., red.; MOZCALEVSKAYA, S.A., mlad. red.;
PONOMAREVA, A.A., tekhn. red.; GERASI CVA, Ye.S., tekhn. red.

[The technical, industrial and financial plan of the enterprises of local significance] Tekhpromfinplan predpriiatii prises of local significance] Tekhpromfinplan predpriiatii prises of local significance] Tekhpromfinplan predpriiatii mestnogo znacheniia. Moskva, Ekonomizdat, 1963. 295 p.

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SHCHUKIN, A.I., kandidat tekhnicheskikh nauk; FEL' DEAUM, A.A., kandidat tekhnicheskikh nauk;

Apparatus for precision control of dimensions by the induction method. Vest.elektroprom. 18 no.5:22-24 '47. (MLRA 6:12)

(Electric controllers)

1. Vsesoyuznyy elektrotekhnicheskiy institut.

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Translation from Referativnyy zhurnal, Mekhanika, 1957, Nr 2, p 12 (USSR)

AUTHOR Shchukin. A.I.

TITLE

The Generalized Formulas of the Transfer Functions and the Structural Arrangement of Multi-Contoured Servo and Regulating Systems (Obobshchennyye formuly peredatochnykh funktsiy i strukturnyye skhemy mnogokonturnykh sledyashchikh i reguliruyemykh sistem)

PERIODICAL Tr Vses zaoch energ. in-ta, 1955, Nr 6, pp 27-35

ABSTRACT Bibliographic entry

1. Servomechanisms 2. Mathematics 3. Control systems

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(Crystal triodes in automatic control apparatus] Kristallicheskie triody v ustroistvakh avtomaticheskogo upravlenia. Moskva, Izd-vc

"Sovetskoe radio," 1957. 159 p. (MLEA 10:9)

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KARPOV, Aleksey Vladimirovich; RULEV, V.V., inzh., retsenzent; SHCHUKIN, A.I., kand.tekhn.nauk, retsenzent; MASLOVA, Ye.F., red.; KISE-LEVA, A.A., tekhn.red.

[Electric equipment for refrigerators; large-current electric units] Elektrooborudovanie kholodil nikov; elektroustanovki sil nogo toka. Moskva, Gos.izd-vo torg.lit-ry, 1960. 207 p.

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KONZV, Yu.I.; SOTSKIY, B.S., prof., doktor tekhn.nsuk, retsenzent;
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tekhn.red.

[Application of transistors in sutomatic control] Poluprovodnikovys triody v svtomatike, Moskva, Izd-vo "Sovetskoe
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(Transistors) (Automatic control)

PETROV, I.I., doktor tekhn.nauk, prof.; SHCHUKIN, A.I., kand.tekhn.nauk, dots.; ZUSMAN, V.G., kand.tekhn.nauk, dots., PARTUSEEV, C.S., kand.tekhn.nauk; NEWHATKY, V.Tu., kand.tekhn.nauk; POPOV, G.A., dots.

"Principles of electric driving" by A.T. Golovan. Revised by I.I. Petrov and others. Elektrichestvo no.8:93-95 Ag '60.

(Klectric driving)

(Golovan, A.T.)

PETHOV, I.K.; SHCHUKIN, A.I.

Instruments for measuring the moisture content of various products and materials. Priborostroenie no.9:13-16 S '60.

(MIRA 13:9)

(Moisturs--Measurement)

SHCHUKIN, A.I.; YAKOSISHVILI, A.Z.

Electronic apparatus for determining the moisture content of stiff leather. Kozh.-obuv.prom. 2 no.6:33-35 Je '60.

(MIRA 13:9)

(Moisture--Measurement) (Leather)

BANDZFLADZE, A.Ye.; SHCHLFIN, A.I.

PVUK-1 electronic moisture gauge for coal. Ugol' 36 no.9:34-35 s'61. (MIRA 14:9)

(Coal--Testing) (Gauges moisture--Measurement)

ACCESSION NR: AT4013980

\$/3070/63/000/000/0098/0100

AUTHOR: Fedorov, Yu. N.; Serebryakov, A. G.; Kostry\*gina, N. A.; Tsy\*ro, O.L; Shchukin, A. I.

TITLE: The semi-automatic ultrasonic apparatus UKL-2 for inspecting sheet metal for internal defects

SOURCE: Novy\*ye mashiny\* i pribory\* dlya ispy\*taniya metallov. Sbornik statey. Moscow, Metallurgizdat, 1963, 98-100

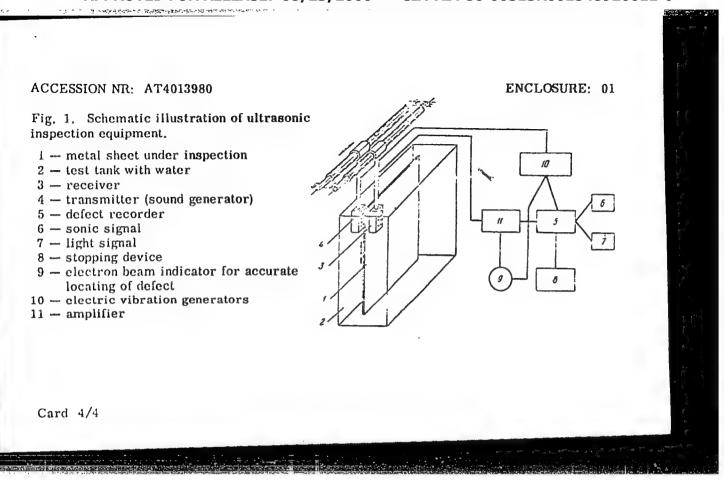
TOPIC TAGS: sheet metal inspection, ultrasonic inspection, piezoelectric transducer, metal defect, metal sheet

ABSTRACT: For detection of internal defects (laminations, non-metallic inclusions) in sheet metal, a semi-automatic immersed ultrasonic inspection device has been developed, in which several pairs of transmitting and receiving piezoelectric transducers are used. The transmitter 4 and receiver 3 are placed symmetrically on opposite sides of the test sheet 1. (See Fig. 1 of the Enclosure.) Water is used as the immersion liquid in the test tank 1. With the aid of power-driven threaded spindles, the transmitter and receiver can be moved horizontally back and forth along the inspected sheet with a speed of 6.8 m per minute. During this movement, the sheet is stationary. At the end of each passage, the transducers Card 1/4

ACCESSION NR: AT4013980

are arrested, and the sheet is raised by the width covered by inspection during one passage. At the detection of a defect, a sonic signal 6, a light signal 7, and an automatic stopping device are triggered simultaneously. The approximate coordinates of the defect can be determined by taking readings on scales. For more accurate locating of the defect, a manual drive and an electron beam indicator 9 can be used. The drive mechanisms for the sheet and the transducers are mounted on the test tank structure. Adjustment is provided for different sizes of sheets to be inspected. All automation and electronic elements are unified in one cabinet, in the upper panel of which the controls are installed. The electric scheme of the installation is described, with some simplifications but in considerable detail. The receiver and transmitter each contain ten piezoelectric transducers, 10 mm in diameter and 1 mm thick. The frequency of ultrasonic vibrations is 2.8 megacycles/sec. The circular quartz plates are arranged in two vertical rows, overlapping 40%, permitting the inspection of a 50 mm wide strip during each horizontal path. The resolving capacity of the installation was determined by examining sheet specimens with artificial defects, represented by flat bottom drillings, not fully penetrating the sheet and closed by plugs of the same material. As a result of these tests, it has been established that the minimum size of a defect detectable by the apparatus is 2.5-3 mm2. However, this size depends on

Card 2/4

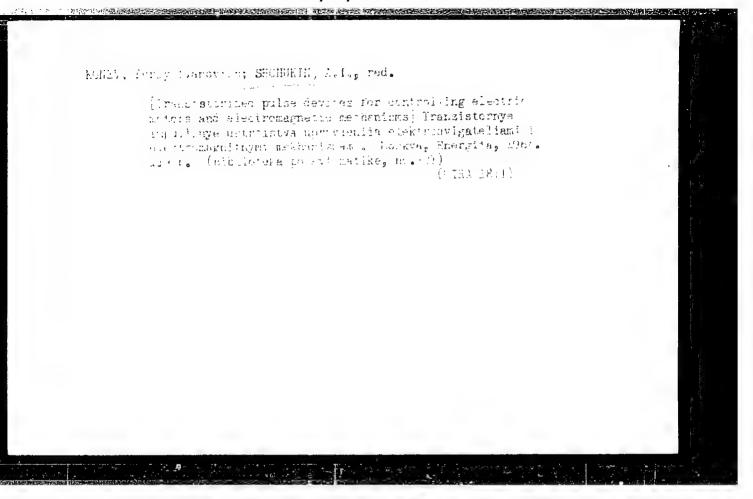


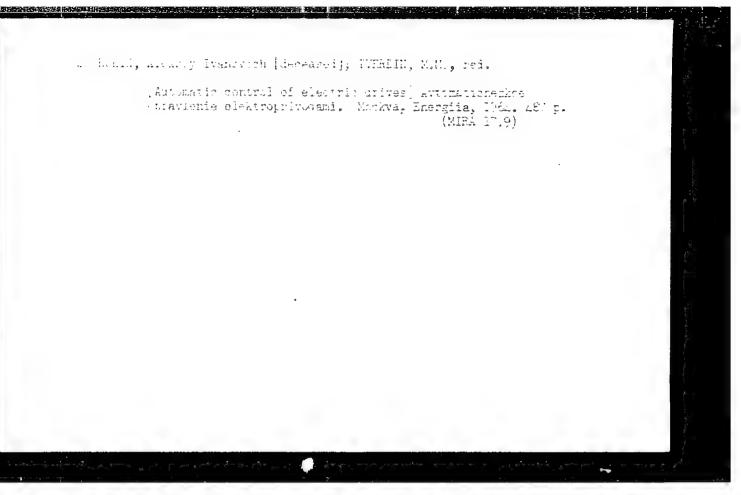
SHCHUKIN, A.I., inzh.

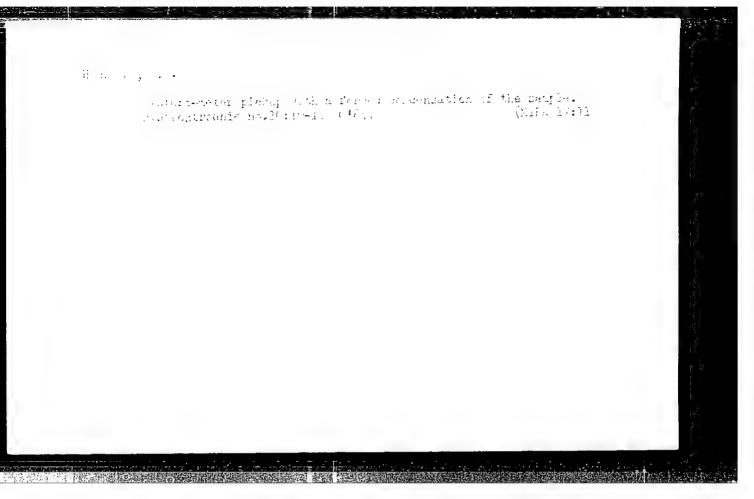
Using the capacitance method for measuring the moisture content of peat. Torf.prom. 40 no.1:20-22 '63. (MIRA 16:5)

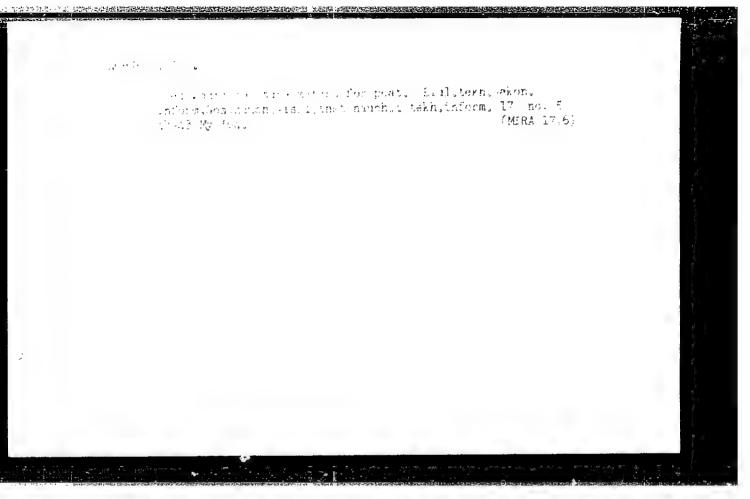
1. Smolenskiy filial Nauchno-issledovatel'skogo instituta teploenergeticheskogo priborostroyeniya.

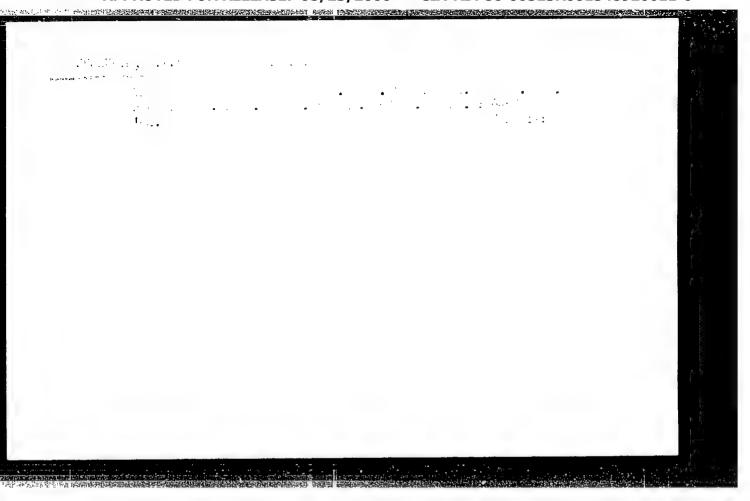
(Peat) (Moisture--Measurement)











VALAROVICH, M.P. (Moskva); SHCHUKIN, A.I. (Moskva)

Use of nuclear magnetic resonance in determining the moisture content of disperse systems and the properties of bound water.

Koll. zhur. 26 no.3:386-390 My.Je '64. (MIRA 17:9)

VOLARGVICH, M.P.; SHCHUKIN, A.I.

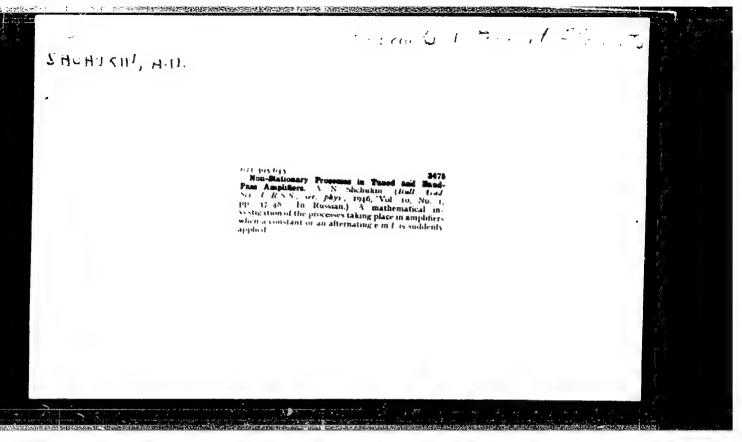
Use of the nuclear magnetic resonance method for determining the moisture of peat. Koll.shur. 27 no.31L74-L75 My-Je '65. (MFRA 18:12)

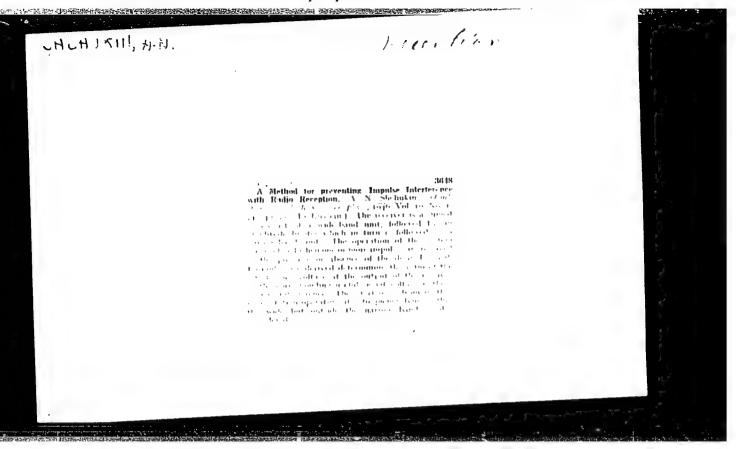
1. Smolenskiy filial Nauchno-lesledovatel'skogo institute teploenergeticheskogo priborostroyeniya. Submitted Nov. 12, 1964.

Name: SHCHUKIN, A.N.

Author of book, "Propagation Ultra-short Waves" This book contains the following: physical phenomena of ultra-short wave propagation, direct communication, ground wave, short skip, etc. This book is specifically designed for students at technical institutes.

REF: Rodio #19, p.63, 1938





SHCHUKIN, A. N.

"A. S. Popov and Contemporary Radio Engineering."

Radio, No 5, 1949. Corr. Memb. Acad. Sci. USSR, -1949-.

N

AID P - 4397

Sub.lect

: USSR/Radio

Card 1/1

Pub. 89 - 6/11

Author

: Shchukin, A.

Title

: Pocket-size radio with triode transistor

Periodical

Radio, 3, 40-42, Mr 1956

Abstract

The design of a pocket size superheterodyne receiver set mounted on triodes transistor and operating on a 20 v battery with a built-in magnetic antenna is discussed in great detail. Data on coils are given in a table.

Seven diagrams.

Institution:

None

Submitted

No date

PHASE I BOOK EXPLOITATION

SOV/4080

Teoriya veroyatnostey i eksperimental'noye opredeleniye kharakteristik slozhnykh ob"yektov (Theory of Probability and Experimental Determination of the Characteristics of Complex Objects) Moscow, Gosenergoizdat, 1959. 111 p. Errata slip inserted. 8,000 copies printed.

Ed.: V.I. Shamshur; Tech. Ed.: N.I. Borunov.

PURPOSE: This book is intended for students taking advanced courses in schools of higher technical education, and for engineers and scientific workers.

COVERAGE: The book gives a brief account of the theory of probability, and studies problems pertaining to quality control, reliability, and efficiency of various instruments and devices. The approach to a solution of these problems is illustrated by a number of examples. The author thanks F.V. Lukin, G.S. Narimanov, G.A. Tyulin and V.P. Shishov. There are 22 references: 21 Soviet and 1 English.

Card 1/3

Theory of Probability (Cont.)	S0V/4080	
TABLE OF CONTENTS:		
Preface		3
I. Introduction. Fundamental theorems from the the Mean and mean-square values of random values.	neory of probability. Dispersion	5
II. The binomial law of probabilities distribution	and its characteristics	5
III. Continuous distribution of probabilities. Pr ferential and integral curves of the distribu- Mean and mean square values and the dispersion a continuous distribution	ntion of probabilities.	22
IV. Some examples of applying the theory of probab of complex objects. Quality control problems ponent parts and the whole unit. Life (of a n	. Reliability of com-	29
Card 2/3		

Theo	ry of Probability (Cont.) SOV/4080	
V. I	Fundamental laws of the distribution of probabilities. Poisson's law.	45
VI.	Characteristic functions. Normal law of the distribution of probabilities	53
VII.	Substitution of variables in distribution functions. Rayleigh's distribution. Distribution functions of several variables. Elliptic distribution. Spherical and ellipsoidal distribution	64
VIII.	Selection of distribution functions on the basis of experimental data. Confidence limits and confidence probabilities	78
Appen	dix: Tables of some functions	95
Bibli	ography	112
AVAIL	ABLE: Library of Congress	
Card 3	AC/rl: 8-17-4	

\$/194/62/000/004/096/105 D201/D308

69400

AUTHOR:

· Shchukin, A. N.

TITLE:

The effect of fluctuation noise on the accuracy of determining the coordinates by radio engineering

methods

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 4, 1962, abstract 4-7-14n (V sb. 100 let so dnya

rozhd. A. S. Popova, M., AN SSSR, 1960, 5-28)

TEXT: A simplified and physically clear analysis of the effect of interference and of useful signal fluctuations on the accuracy of determining angular coordinates and distance by radio engineering methods is given. Mathematically simple approximations, relating . the accuracy of coordinate determination to the energy of S, energy of fluctuations and to the parameters of the radio engineering system, are also derived. It is assumed that the strength S is substantially greater than the average level of fluctuating noise. The well-known relationships are given for the signal and fluctua-

Card 1/2

\$/194/62/000/064/096/166 B201/B308

The effect of fluctuation ...

(B) 京 [17] 4 [17] 5 [1

tion noise passing through a typical receiving installation with an amplitude detector and the so-called homodyne detector. It is assumed that such a receiver is used in all coordinate measuring arrangements. General formulas for the m.s. error in a given direction (of angular coordinates) are obtained, and are subsequently applied to two particular cases, when direction is determined by the equisignal zone and phase methods. Mean square errors in distance evaluation are determined for continuous and pulse signal methods. The results obtained are applied to the determination of probability that the object is situated in a given volume of space; this is achieved utilizing the fact that errors in the measurements of direction and of distance obey the normal law of distributions. Errors in determining the displacement velocity of the object are found, the errors being due to the presence of fluctuation noise. The effect of fluctuation of S on the accuracy of coordinate determination is estimated. / Abstracter's note: Complete translation. /

Card 2/2

PHASE I BOOK EXPLOITATION

SOV/ 5838

Shchukin, A.N.

Dinamicheskiye i flyuktuatsionnyye oshibki upravlyayemykh ob"yektov (Dynamic and Fluctuation Errors of Controlled Objects) Moscow, Izd-vo "Sovetskoye radio," 1961. 213 p. 7000 copies printed.

Ed.: N.G. Zabolotskiy; Tech. Ed.: B.V. Smurov.

PURPOSE: This book is intended for engineers interested in guiding systems and for students.

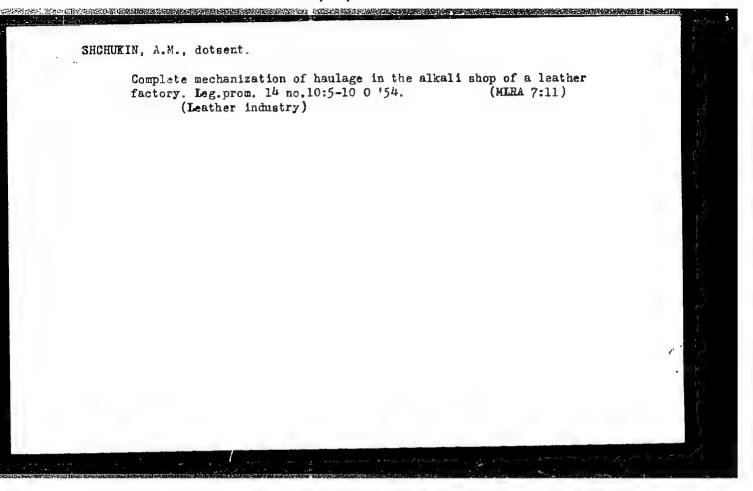
COVERAGE: The book determines the physical nature, character, and values of the deviation of guided objects from their predetermined ideal trajectory. Guided objects together with the complexity of the guiding media are considered as single systems possessing a limited number of parameters and characterizing the number of errors at various conditions of motion. The book also presents a qualitative evaluation of basic factors influencing the precision of guided objects. Physical processes occurring in systems containing guided objects are explained No personalities are mentioned. There are 13 references, all Soviet.

Card

ALTSIN VICE, L.A., akademik; KELL/ISH, M.V., akademik; KAPITSA, P.L., akademik; T.L. B.M.; VERESHCHAGIN, L.F.; PISTOL'KOPS, A.A.; SHCHUKIN, A.N., akademik; SKOBEL'TSYN, D.V., akademik; ALEXSANDROV, A.P., akademik; AMBARTSUMYAN, V.A., akademik; ZEL'DOVICH, Ya.B.; SEMENOV, M.N., akademik; KOTEL'NIKOV, V.A., akademik; LIFSHITS, I.M.; VEKSIEP, V.I., akademik; GINZBUPG, V.L.; MILLIONSHCHIKOV, M.D., akademik

Some problems in the development of modern physics; discussion of the work of the Pepartment of General and Applied Physics. Vest. AN SSSE 35 no.2:3-46 F 165. (MIRA 18:3)

1. Chleny-korrespondenty AN SSSE (for Vul, Vereshchagin, Pistol'kors, Lifshits, Ginzburg).



ANDREYMV, Yevgeniy Timofeyevich; SHCHUKIN, Aleksandr Semenovich; SAUKHAT, I.G., redaktor; KEL'NIK, V.P. redaktor; KOVALENKO, N.I., tekhni-cheskiy redaktor:

[The miner] Prokhodchik gornykh vyrabotok; uchebnoe posobie dlia shkol i kursov masterov gornorudnykh predpriiatii. Sverdlovsk, Gos. nzuhcno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metal-lurgii, Sverdlovskoe otd-nie, 1955. 320 p. (MIRA 9:4) (Mining engineering)

SHOW KI., A. S. -- "The Selection and Investigation of mational Types of Supports for Basic Morizontal Mine Work under the Conditions of 'Puchasandiye' Mock in the Chelyshins Brown-Coal Basin." Min Higher Education MSSk, Sverdlovsk Mining Inst imeni V. V. Vakhrushev. Sverdlovsk, 1766.

(Dissertation for the Degree of Candidate in Technical Sciences).

50: Enizhnaya Letopis', No 9, 1955

SHCHUKIN, A.S., kand. tekhn.nauk.

Determining rock pressure in adit-type excavations in bound soft and hard monolithic formations. Izv. vys. ucheb. zav.; gor. zhur. no.2:28-36 158. (MIRA 11:5)

SHCHUKIN, A.S., kend.tekhn.nauk

Comparative technical efficiency of various types of drift
lining. Izv.vys.ucheb.zav.; gor.zhur. no.9:28-37 '58.

(MIRA 12:6)

1. Sverdlovskiy gornyy institut.

(Mine timbering)

SHCHUKIN, A.S., kaud.tekhn.nauk

Modeling rock freezing processes. Izv.vys.ucheb.zav.; gor.
zhur. no.10:32-37 '58. (MIRA 12:8)

1. Sverdlovskiy gornyy institut.
(Geological modeling) (Frozen ground)

F.DU.CV. S.... rofe, doktor telementalk; SECHEKII, A.S., kand.tokim.nauk; a. M.MYDI, Ye... land telementalk; GONZONCV, B.Fr.; starshiy proposity at 1 of M.CV. V.S., assistent; MYCHECV, A.I., assistent; Garly. B... assistent

Qualifications of a mine building engineer. Shakht strof.
5 no.V:6 7 J. M. (MINA 15:5)

1 ...verdieve dy permy fractive.
(Eming engineering)

ALEKSEYEV, V.L., inzh.; POLOVOV, B.D., inzh.; SHCHUKIN, A.S., kand. tekhm. nauk

Construction of a watertight barrier in a shaft by the underwater concreting method. Shakht. stroi. 8 no.5:25-28 My'64 (MIRA 17:7)

1. Trest Boksitstroy (for Alekseyev). 2. Sverdlovskiy gornyy institut (for Shchukin).

ALEKSEYEV, V.L., inzh.; POLOVOV, B.D., inzh.; SHCHUKIN, A.S., kand.tekhn.nauk

Ground cementation from the working face during vertical shaft sinking. Shakht.stroi. 8 no.11:25 N \*64.

(MIRA 18-1)

1. Trest Boksitstroy (for Alekseyev). 2. Sverdlovskiy gornyy institut (for Shchukin).

SHCHUKIN, Anatoliy Yefimovich; DOBRIN, K.S., red.; SHCHETININ, V.D., red.; ROMANOVA, N.I., telchn.red.

[Industry of the German Democratic Republic; its development and place in the socialist division of labor] Promyshlennost' Germanskoi Demokraticheskoi Raspubliki; se razvitie i mesto v sotsialisticheskon razdelenii truda. Moskva, Izd-vo IMO, 1959.

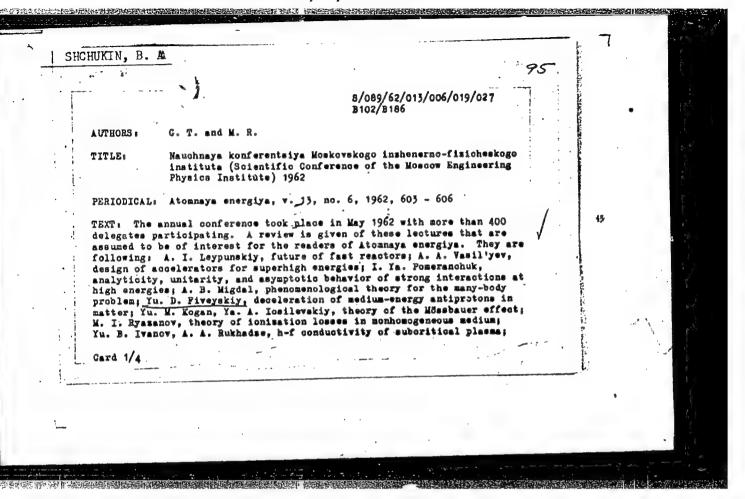
[Germany, East--Industries]
(Germany, East--Foreign economic relations)

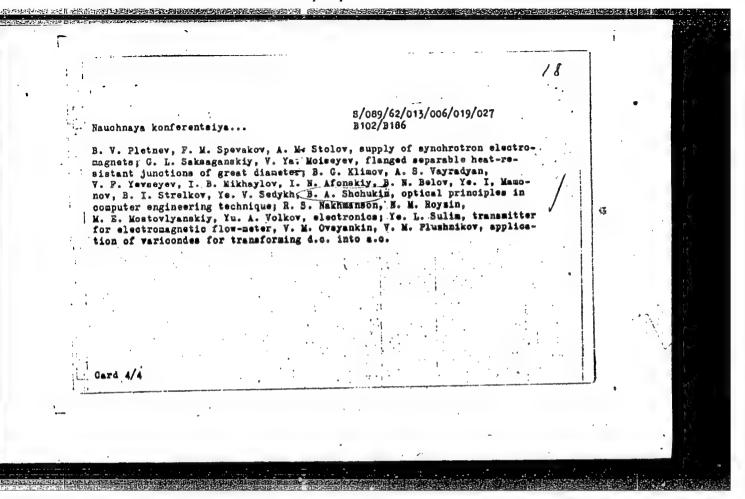
KHCKHLOV, I., instruktor; SHCHUKIN, B., starshiy inzh.

High-school education for every miner. Sov. shakht. 11 no.3: 36-37 Mr '62. (MIRA 15:5)

1. Otdel shkol Donetskogo oblastnogo komiteta Kommunisticheskoy partii Ukrainy (for Khokhlov). 2. Otdel kadrov i uchebnykh zavedeniy Donetskogo sovnarkhoza (for Shchukin).

(Donetsk Province--Coal miners--Education and training)





1 62055_65 EWT(d)/EPE(n)-2/EWP(v)/EWP(k)	)/EWP(h)/EWF(1) Po-4/Pq-4/Pf-4/Pg-4/Pac-2/
Pu-4/Pk-4/P1-4 IJP(c) WW/BC	11. 12. 12. 12. 12. 12. 12. 12. 12. 12.
ACCESSION NR: AP5012882	3R/0280/03/000/002/0125
ATTENOD: Aleksandrov, V. M. (Moscow	); Batkov, A. M. (Moscow);
Character A N (Moscow): Shchukin,	B. A. (Moscow)
mini E. Determining the mathematical e	xpectation and dispersion of the response
.c1+ii-able nonlinear time-depend	lent system by computers
COURCE: AN SSSP Tayestiva. Tekhnich	neskaya kibernetika, no. 2, 1965, 123-128
TOPIC TAGS: automatic control, autom	atic control design, automatic control
TOPIC TAGS: automatic control, autom	g
ABSTRACT: The accuracy is considered	d of an automatic-control system
describable by these normal differential	equations:
describable by these normal uniterestate	$\mathbf{C} = \mathbf{C}. \tag{1.1}$
$\frac{dY}{dt} = F(t, Y) + B(t)f,  Y(0)$	)=0,
where $Y = (y_i)$ is the column vector (sy	stem outputs, to, 2)
vector nonlinear function; $B(t) = (\beta_{ij})^{-18}$	a variable rectangular matrix (n × m);
$f(t) = (f_i)$ is the column vector represent	iting the disturbance (white holds with
$I(t) = (f_i)^{-1}$ is the column vector representation independent components); $Y(0) = C$ ; is a	a random vector of linetal conditions
Card 1/2	
1/4	
	78

## "APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001548920011-0

L 63255-65

ACCESSION NR: AP5012882

noncorrelated to the disturbance vector. A method is suggested for setting up nonlinear differential equations (2.17) whose solution gives a vector of mathematical expectation and a dispersion matrix of the output signal in time; the output process is assumed to be close to normal. The method is claimed to be simpler in computations than the methods of statistical linearization with successive approximations or canonical random functions. If the nonlinear system (1.1) contains only single-variable nonlinearities, the expectation-and-dispersion equations (2.17) can be integrated on an analog computer. Generally, the method: requires the use of a digital computer. For stationary conditions, the right-hand member of (2.17) is equal to zero, and the problem is reduced to solving a set of nonlinear algebraic equations. Orig. art. has: 1 figure and 42 formulas.

ASSOCIATION: none

SUBMITTED: 13Feb64

NO REF SOV: 003

ENCL: 00

SUB CODE: DP, IE

OTHER: 002

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001548920011-0"

L 34944-65 EWT(d)/EWP(1) Po-4/Pq-4/Pg-4/Pk-4/P1-4 IJP(c) BC

ACCESSION NR: AP5008322 S/0103/65/026/003/0492/0499

AUTHOR: Aleksandrov, V. M. (Moscow); Batkov, A. M. (Moscow); Staroverov, A. N. (Moscow); Shchukin, B. A. (Moscow)

TITLE: Investigation of the accuracy of nonlinear nonstationary systems by means of the statistical linearization method

SOURCE: Avtomatika i telemekhanika, v. 26, no. 3, 1965, 492-499

TOPIC TAGS: <u>automatic control</u> nonlinear, nonstationary control system, statistical linearization method

ABSTRACT: A study is made of a control system whose performance is described by the system of nonlinear differential equations written in normal vector form

$$\frac{dY(t)}{dt} = F(t, Y) + B(t)f(t),$$

$$Y(0) = C$$
(1)

where the components of the vector Y(t) represent processes at the output of the system, components of the vector f(t) represent independent random processes of white noise type at the input of the system, F(t, Y) is an inertia-free, nonlinear Cord 1/2

L 34944-65

ACCESSION NR: AP5008322

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transformation vector, C is a vector of normally distributed initial conditions, and B(t) is an m + n matrix of variable coefficients. To determine the accuracy of system (1), the variation in time of the mathematical expectation vector  $\overline{Y}(t)$  and the variance vector  $\theta(t)$  of the vector random process Y(t) are sought. It is indicated that this problem has a simple solution when the transformation F(t, Y) is linear. System (1) is written for this case and a system of differential equations is derived from which  $\overline{Y}(t)$  and  $\theta(t)$  can be solved. It is shown how, using the method of statistical linearization (approximation of the nonlinear transformation F(t, Y) by a certain form of linear transformation Z(t), system (1) can be reduced to the form derived for the linear case and how a system of nonlinear differential equations for direct determination of  $\overline{Y}(t)$  and  $\theta(t)$  can be constructed which is amenable to solution on a digital computer. It is stressed that the method presented is more economical and has other advantages as compared with the methods presented by other authors. Orig. art. has: 29 formulas.

ASSOCIATION: none

SUBMITTED: 20Mar64

ENCL: 00

SUB CODE: IE MA

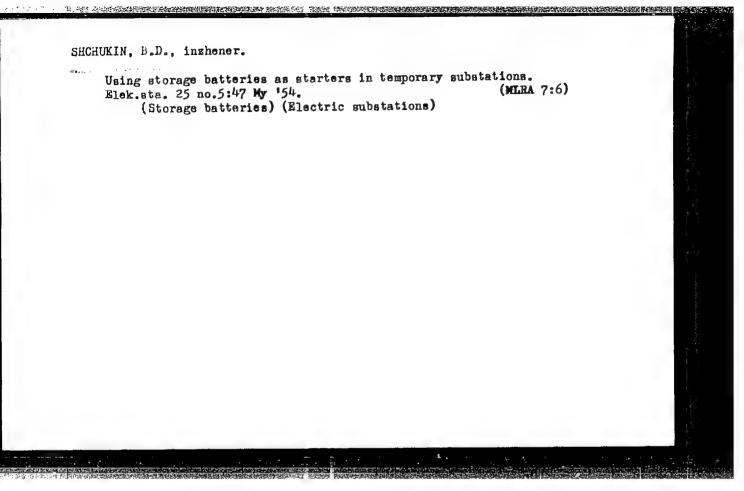
NO REF SOV: 003

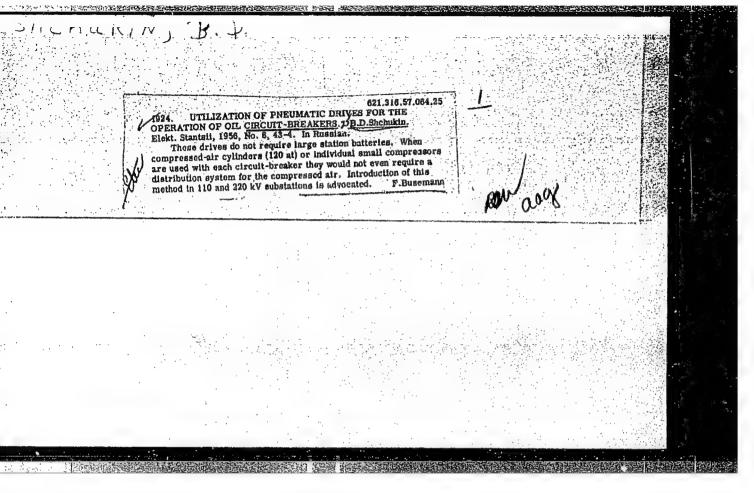
OTHER: 001

ATD PRESS:3211

Card 2/2

Cara 2/2





MUSATOV, T.P. inzh.; SHCHUKIN, B.D.; FIKSMAN, S.I. (Odessa)
GETSHKOVICH, S.F.; SHCHLF, R.V.; DODIN, Ya.I.; ZEYLIDSON,
Ye.D.

Problem of automation and remote control in industrial substations. Promenerg. 12 no.8:1-7 Ag '57. (MIRA 10:10)

1.Stalinskiy setevoy rayon Donbassenergo (for Musatov).
2.Gidroproyekt, g. Kuybyshev (for Shchukin). 3.Novo-Kemerovskiy
khimkombinat (for Gershkovich). 4.Novosibirskoye otdeleniye
Gosudarstvennogo proyektnogo instituta Elektroproyekt (for Shnell').
5.Leninogorskiy polimetallicheskiy kombinat (for Dodin).
6.Tekhnicheskoye upravleniye Ministerstva elektrostantsiy (for
Zeylidzon).

(Electric power) (Automatic control)

YERMIOV, A.A., inzh; SEULIN, N.A., inzh; CHIZHISHIN, P.L., inzh.; CHEPELE, Yu.M., inzh.; MUSATOV, T.P., inzh.; FEDOMOV, A.A., kand. tekhn.nauk; YAROSHETSKIY, L.M., inzh.; GOL'EMBLAT, B.I., inzh.; KUDHYASHOV, S.A., inzh.; ZARHAROV, N.M., inzh.; SHCHUKIN, B.D., inzh.

Improving planning of industrial power supply. From. energ. 13 no.7: 18-29 Jl '58. (MIRA 11:10)

1. Tyazhpromelektroproyekt. (for Yermilov). 2. Zhemproyektas, g. Kaunas (for Chepele). Denbassenerge (for Musatov). 4. Moskovskiy energéticheskiy institut (for Fedorev). 5. Uzgiprevedkhoz. g. Tashkent (for Yaroshetskiy). 6. Proyektayy institut Ministerstva stroitel stva USSR, Odessa (fer Col'denblat). 7. Elektroproyekt, g. Kuybyshev (for Kudryashov). 8. Gosradioelektronika (for Zakharov). 9. Bidreproyekt, g. Kuybyshev (fer Shchukin). (Electric power)

AUTHOR:

Shehukin, B.D. (Engineer)

SOV/94-58-9-6/30

TITLE:

6-10 kV transformers with built in change-over switches

(Transformatory 6-10 kv so vstroyennymi pereklyuchatelyami)

PERIODICAL:

Promyshlennaya Energetika, 1958 No.9. pp. 18-19

ADSTRACT:

The power supply system layout used at an oil refinery built in 1945 is illustrated schematically in Fig.1. This layout is based on the use of imported transformers with built-in change-over switches

connected through trifurcating boxes as shown in Fig.2. The

transformers are hermetically sealed and filled with pyranol. There is a two-position change-over switch on the 6 kV side and an interlocked automatic circuit breaker on the 400 V side. When transformers of this construction are available dual supply throughout the refinery is very easily arranged. Such transformers could also be used in urban supply systems and many other cases. If Soviet transformers of this kind were made, package sub-stations could be made more cheaply.

There are 3 figures.

ASSOCIATION: Gidroproyekt, Kuybyshev

1. Transformers--Design 2. Transformers--Control systems

3. Transfer switches--Applications

Card 1/i

SHCHUKIN, B.D.

Simplified method for calculating short-circuit currents in 6 to 10 kv. systems. Prom. energ. 15 no.7:39-41 Jl '60. (MIRA 15:1)

1. Vsesoyuznyy proyektno-izyskatel'skiy i nauchno-issledovatel'skiy institut im. S.Ya. Zhuk Ministerstva stroitel'stva elektrostantsiy SSSR, Kuybyshev.

(Electric power distribution)

The amplified DC sinal and conveyed in the motor-generator meters of the devia	ignal from the measum on this capacity to the capacity system. Such mono- ation of motor RPM for the frequency princ	ersion factor of the mea ring device is utilized he excitation winding of vibrator-controlled push rom the established valu ciple. Orig. art. has:	as a control sig- the generator in -pull MA may serve as the in automatic control	
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Card 2/2	0 %			